

### ABSTRACT

In order to provide a burr examination sensor device for the examination of burrs on a workpiece which can be used universally it is suggested that this comprise at least one distance sensor with a detector head, wherein the detector head can be positioned at a distance to the workpiece and detector head and workpiece are movable relative to one another and wherein the detector head can be coupled electromagnetically to the workpiece or the workpiece can be acted upon by it with an electromagnetic signal and the coupling to the workpiece or an electromagnetic reaction signal of the workpiece to the impinging signal are dependent on a distance between detector head and workpiece so that this distance can be determined without any contact and a workpiece surface can be scanned by the detector head without any contact.